



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Roman Sobolewski et al.  
Assignee: Schlumberger Technologies, Inc  
Title: Superconducting Single Photon Detector  
Application No.: 09/628,116 Filing Date: July 28, 2000  
Examiner: Timothy J. Moran Group Art Unit: 2878  
Docket No.: M-8821 US

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COMMISSIONER FOR PATENTS  
Washington, D. C. 20231

**RESPONSE TO OFFICE ACTION WITH RCE**

Sir:

Applicants submit this response in the Office Action in the above case having a mailing date of May 15, 2002, along with a Request for Continued Examination and Petition for Extension of Time.

**REMARKS**

This application stands rejected under 35 USC § 103 citing Hoyle in combination with II'in. No claims are amended herein but it is pointed out herein why the rejection is not appropriate. Therefore reconsideration of the application and entry of this paper are requested, even though the rejection is final.

The Examiner stated, in pertinent part, in his rejection, first paragraph on page 3:

Hoyle does not explicitly teach the use of this method for the detection of single photons, but one skilled in the art of light detectors would recognize the advantage of a detector with a sensitivity to detect single photons. Hoyle does teach that strips with small widths are sensitive to lower energy impacts ... Thus, one skilled in the art would therefore understand that by properly decreasing the width of the channel (or strip) the detection of single photons has a reasonable chance of success. Therefore it would have been obvious to one of ordinary skill in

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